

SEQUENCE LISTING

<110> Institute of Animal Health Burgess, Shane Campbell, et al.

<120> Biological material and uses thereof

<130> 350013-73

<140> US 09/673,913

<141> 2000-10-23

<150> GB 9809070.7

<151> 1998-04-29

<160> 11

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 1956

<212> DNA

<213> Gallus sp.

<400> 1

tcgagaattc acgcgtggta cctctagaga tccctcgacc tcgagatcca ttgtgctgga 60 aaggaactgg agtggccctg gacttggtga gcggacactg agcgaggctg gactggacgc 120 tgggagggtc ccagacttca ggaggagcaa cctggctgtc agacctgcaa tgctgggaga 180 tcaggaaagc taacgccact gcagatggct tcctgcagcc tgagactggg actgtggctc 240 ctgctgcttc tccaggacat tcagggagcc ccacagccac cgttcacctc atctcattcc 300 tgtgacacac tcaagaattg gttctatgat gaaacattag ggaggtgctg ttaccagtgc ccttcaggct atgctaaaaa gaaatcatgt cccatggatc cagatgaaga ctgcatgaga tgtggacctg agcaatacct gaatcagtcc ccaaagcac gatgtgatgc ttgtgtgtta tgcaccaaag aatttgacct tgtggagaag gcccctgct ccttcaattc cagccgggtg tgtgagtgtc gaccagggat gtttgccag actgctgcta agaacacctg catgcgatgc 360 420 480 540 600 cageggeaca etgettgeaa geetggtttt ggggteaaaa teagaggeae tteagagaet 660 gatgtttcat gtgaggaatg ccctcctggg accttctctg accaaagctc cagcactgac 720 gtctgcaagc cccacacgga ctgtgccaag ttgaacaaag tagcacaagg caaaggaaat gccacccatg atcaggtttg cacggaccaa ttgccctcct acctcaccc agacacctcc 780 840 tccatcagaa tcaccaatga gacagatgac tctgacgtac tgaagcgtaa tgcaaacccg gtgacccttg ctagcatcct ttcaagtgcc acaaccgaaa ttcccggttc aactcccgag gaggaagctc tggctggcac ttctcccacc ttagccaagg gggaaacaac aacgagaggt cttgtttct gggcagtggt tctctctgtg atggtgctac ctgtgggcat gctgtcattt tggcaatgga aggtctgcaa gaaacggatc ttcatcctca aacaaaagcg ttctgatcta 900 960 1020 1080 1140 gtggacaaat atgcaaagat cacactgacc actgacaaat gtccagaaga ggaggagtta 1200 actgacagga gcctcccttt ggaaaccaac aacaacaact tgatctccag tgctgaaaaa 1260 gcaggtagic cigitcigag icigactgaa gigacgcaga gcaatggaaa agccccagat 1320 ggccccattg attctcaagt gagagaccac acaaataatc agattggaaa aatattcatc 1380 atgaacgccg ataccgttat tgtggggtct tcaaaaacgc ctggtatcaa gagctgcact 1440 gctaggggat atgaaactga tgttgatctc caggaaaaga tggaagagga gctgtcaatg 1500 cactatccag agcaggagac agaggttttt ccagggaatg atgtcatggt tcctgtggaa 1560 gaggagggaa aggaattcca tcacccacc acggccactg agaagtgatc gcctgctgag aaggtgtgtg aagctacagc aacatccagt gacactaagc ctgaacccac actgagggac gtaaacccag agtgtcttac acgacctgaa aactcacgta aagcaccaaa aacattcagc ttatttcatc cagctaattg agaggatcat ccagaccact ggttcacatc aaacactttt ccttgccctc ccagaatcat gctggaaaca aactggaatc aaagttacag aattcagagg 1620 1680 1740 1800 1860 acttctggag gctaattcac agcttgcttt gtctgcatga agggatggaa ttaaaatggt 1920 tactcctatt agctctgaaa aaaaaaaaa aaaaaa 1956

<210> 2 <211> 467 <212> PRT <213> Gallus sp.

Met Ala Ser Cys Ser Leu Arg Leu Gly Leu Trp Leu Leu Leu Leu Leu Gln Asp Ile Gln Gly Ala Pro Gln Pro Pro Phe Thr Ser Ser His Ser 20 Cys Asp Thr Leu Lys Asn Trp Phe Tyr Asp Glu Thr Leu Gly Arg Cys Cys Tyr Gln Cys Pro Ser Gly Tyr Ala Lys Lys Ser Cys Pro Met 50 60 Asp Pro Asp Glu Asp Cys Met Arg Cys Gly Pro Glu Gln Tyr Leu Asn 65 70 75 80 Gln Ser Pro Lys Pro Arg Cys Asp Ala Cys Val Leu Cys Thr Lys Glu 85 90 95 Phe Asp Leu Val Glu Lys Ala Pro Cys Ser Phe Asn Ser Ser Arg Val 105 Cys Glu Cys Arg Pro Gly Met Phe Cys Gln Thr Ala Ala Lys Asn Thr 115 120 125 Cys Met Arg Cys Gln Arg His Thr Ala Cys Lys Pro Gly Phe Gly Val 135 140 Lys Ile Arg Gly Thr Ser Glu Thr Asp Val Ser Cys Glu Glu Cys Pro 155 150 Pro Gly Thr Phe Ser Asp Gln Ser Ser Ser Thr Asp Val Cys Lys Pro 170 165 His Thr Asp Cys Ala Lys Leu Asn Lys Val Ala Gln Gly Lys Gly Asn 185 Ala Thr His Asp Gln Val Cys Thr Asp Gln Leu Pro Ser Tyr Leu Thr 195 200 205 Pro Asp Thr Ser Ser Ile Arg Ile Thr Asn Glu Thr Asp Asp Ser Asp 215 220 Val Leu Lys Arg Asn Ala Asn Pro Val Thr Leu Ala Ser Ile Leu Ser 230 235 Ser Ala Thr Thr Glu Ile Pro Gly Ser Thr Pro Glu Glu Glu Ala Leu 245 250 Ala Gly Thr Ser Pro Thr Leu Ala Lys Gly Glu Thr Thr Thr Arg Gly 260 265 Leu Val Phe Trp Ala Val Val Leu Ser Val Met Val Leu Pro Val Gly 275 280 285 Met Leu Ser Phe Trp Gln Trp Lys Val Cys Lys Lys Arg Ile Phe Ile 295 300 Leu Lys Gln Lys Arg Ser Asp Leu Val Asp Lys Tyr Ala Lys Ile Thr 305 310 315 320 Leu Thr Thr Asp Lys Cys Pro Glu Glu Glu Glu Leu Thr Asp Arg Ser 325 330 Leu Pro Leu Glu Thr Asn Asn Asn Leu Ile Ser Ser Ala Glu Lys 345 Ala Gly Ser Pro Val Leu Ser Leu Thr Glu Val Thr Gln Ser Asn Gly 360 Lys Ala Pro Asp Gly Pro Ile Asp Ser Gln Val Arg Asp His Thr Asn 375 380 Asn Gln Ile Gly Lys Ile Phe Ile Met Asn Ala Asp Thr Val Ile Val 390 395 Gly Ser Ser Lys Thr Pro Gly Ile Lys Ser Cys Thr Ala Arg Gly Tyr 410 405 415 Glu Thr Asp Val Asp Leu Gln Glu Lys Met Glu Glu Glu Leu Ser Met 425 His Tyr Pro Glu Gln Glu Thr Glu Val Phe Pro Gly Asn Asp Val Met

```
440
Val Pro Val Glu Glu Glu Gly Lys Glu Phe His His Pro Thr Thr Ala 450 455 460
Thr Glu Lys
465
      <210> 3
      <211> 16
<212> PRT
      <213> Gallus sp.
      <400> 3
Cys Asp Thr Leu Lys Asn Trp Phe Tyr Asp Glu Thr Leu Gly Arg Cys
1 10 15
      <210> 4
      <211> 22
      <212> PRT
      <213> Gallus sp.
      <400> 4
Asp Val Met Val Pro Val Glu Glu Glu Gly Lys Glu Phe His His Pro
1 10 15
Thr Thr Ala Thr Glu Lys
             20
      <210> 5
      <211> 22
      <212> PRT
      <213> Gallus sp.
      <400> 5
Gln Pro Pro Phe Thr Ser Ser His Ser Cys Asp Thr Leu Lys Asn Trp 1 5 10 15
Phe Tyr Asp Glu Thr Leu
20
      <210> 6
      <211> 18
      <212> DNA
      <213> Gallus sp.
      <400> 6
tggaaaggaa ctggagtg
                                                                              18
      <210> 7
      <211> 18
      <212> DNA
      <213> Gallus sp.
      <400> 7
gcaagctgtg aattagcc
                                                                              18
      <210> 8
      <211> 22
      <212> DNA
      <213> Gallus sp.
      <400> 8
                                                                              22
ctgctgcttc tccaggacat tc
```

<210> 9 <211> 22 <212> DNA <213> Gallus sp.	•	
<400> 9 attcctttcc ctcctctcc ac		22
<210> 10 <211> 19 <212> DNA <213> Gallus sp.		
<400> 10 agacttcagg aggagcaac		19
<210> 11 <211> 19 <212> DNA <213> Gallus sp.		
<400> 11 gcttcacaca ccttctcag		19